METHOD AND DEVICE FOR CANCELING NOISE

Also published as: Publication number: JP2003008521 (A) Publication date: 2003-01-10 JP3427381 (B2) Inventor(s): KAKO TAKASHI: OKITA RYOJI + US2003002590 (A1) Applicant(s): FUJITSU LTD + (FUJITSU LTD) US7113557 (B2) Classification: EP1303094 (A2) - international: G10L15/20; G10L21/02; H04B1/10; H04B1/12; H04B3/54; $\bar{\mathbb{B}}$ EP1303094 (A3) H04B15/02; H04J11/00; H04J13/00; H04L27/00; more >>

H04L27/26; H04L27/34; H04R3/02; G10L15/00; G10L21/00; H04B31/10; H04B31/12; H04B384; H04B3 1602; H04J11/00; H04J1300; H04L27/00; H04L27/26; H04L27/34; H04R3/02; (PC1-7): H04L27/00; H04B15/02; G10L15/20; G10L21/02; H04B354: H04J300; H04R3/02

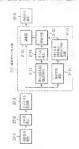
- European: H04B1/10E2; H04B1/12; H04B1/12A; H04L27/26M5

Application number: JP20010186276 20010620 Priority number(s): JP20010186276 20010620

Abstract of JP 2003008521 (A)

PROBLEM TO BE SOLVED: To provide a method and device for canceling noise for power line carrier communication or the like that adaptively selects a band to an actual noise to cancel noise and enhances the S/N to enable high-speed communication, SOLUTION; A zero point insert section 27-2 inserts a zero point signal to prescribed positions of signals sent from a transmission signal generating section 27-1 and the resulting signal is sent to a transmission line 27-3.: A receiver side uses an interleave section 2-13 to extract a noise component from the zero point signal, uses a noise distribution identification section 2-11 to identify a noise distribution from a silence signal period of a received signal, a noise prediction section 2-15 extracts a greater frequency band of the noise components having frequencies in pairs generated by the insertion of the zero point signal according to a comparison result by a pair frequency estimate power comparison section 2-12 to predict noise. A subtractor section 2-16 eliminates the predicted noise from the received signal to cancel the noise.

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